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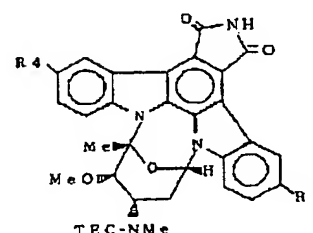
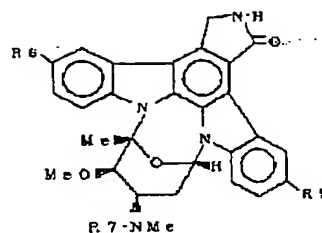
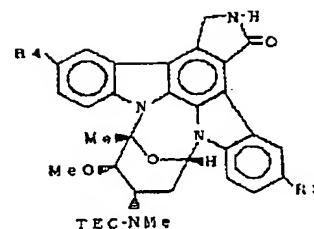
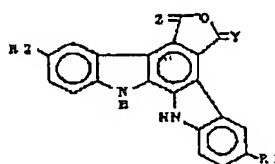
APPLICATION DATE : 13-11-91
APPLICATION NUMBER : 03297072

APPLICANT : ASAHI CHEM IND CO LTD;

INVENTOR : HAYASHI YOSHIHARU;

INT.CL. : C07D491/147 A61K 31/40

TITLE : INDOLOCARBAZOLE DERIVATIVE
AND ANTITUMOR AGENT
COMPRISING THE SAME AS ACTIVE
INGREDIENT



ABSTRACT : PURPOSE: To obtain an antitumor agent having strongly antitumor action by using a new indolocarbazole derivative.

CONSTITUTION: An antitumor agent comprising a derivative of formula I (Y and Z are H or O and Y and Z are not H at the same time; R₁ and R₂ are H, formyl, nitro, OH, etc.) and its pharmaceutically acceptable salt as an active ingredient. For example, a compound wherein Y=O, Z=H₂, R₁=H and R₂=HA in the compound of formula I. The compound of formula I, for example, is obtained by reacting a compound of formula II (R₅ and R₆ are H, formyl, etc.; R₇ is H or β,β,β-trichloroethoxy carbonyl) as a starting raw material with an excessive amount of a chlorine gas as a reagent at room temperature to give a compound of formula III (R₂ and R₄ are H or formyl), oxidizing the compound at the position to give an oxo derivative of formula IV, converting the derivative to an acid anhydride type compound and eliminating saccharide part.

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